"First and final"

M. A. R. 57 (Rule 116)

Measurement Book

No. B 354220

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Name of the work:- Improvements to roads and drains at Chamundeshwari Layout in ward no-10 (Doddabommasandra) vidyaranpura sub division.						
	Estimated Cost:- 25.00 Lacks/-						
	Job code/Indent no:- 010-18-000031 Indent no:- 29462.						
	Head of Account :- 8171						
	Name of the Contractor:- Sri. Aswathnarayana, #38, Chandrappa Layout Shradhambanagara, Jalahalli village. Bangalore-560013						
	Work order number:- BBMP/EE/BTP/WO/127/2018-19. dt:- 19-09-2018.						

Initials of Officer making payment

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MEASUREMENT

Date	Full description, etc, of work	Dimensions				Contents	
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	
	(1) Earthwork Excavation by manual means in ordinary soil in trenches for foundations and drains etc. lift upto 1.5m, the dispose off excavated surface leveled and dressed, the disposal to be leveled neatly after forming ebankments etc. (complete as per specifications and direction of the incharge & lead upto 50m. as per measurement with reference to NBNT- 3543 & Page No - 354281 & 354282					30.00 cum @ Rs. 185.12	Rs 57[illegible]
	(2) Firstly and laying in position Plain cement Concreting mix 1:4:8 with cement @ 180 kgs with 4 mm and down size graded granite metal aggregate @ 0.85 cum and fine aggregate @ 0.57 cum brought to foundation and placed in layers not exceeding 15 cms thick, well compacted by machine vibrator etc. complete as per specifications, and all other incidental charges complete the work.						

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

354221

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	As per pole measurement wide MB No - 35434 Page No - 354282 to 354283						49.95 m³
	(3) providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC) for RCC work laid in 15cm thick layers and well compacted vibrating, curing etc., finishing with necessary cement mortar, forms, works and scaffolding to withstand pumping of concrete with all leads and lifts etc., complete (exclusive cost of steel and fabrication charges) for raft foundations, columns footing, main and secondary beams etc., complete as per specifications and direction of us incharge of the work.				@Rs. 4450.00	Rs 22227 8=00	

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MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7
	Plinth bottom concrete :- 1st (ram R/s -	1 ×	30 ×	0.9 ×	0.15 =	4.05 m³
		1 ×	16.6 ×	0.9 ×	0.15 =	2.24 m³
	Ch Ex. 4 S} -	1 ×	30 ×	0.9 ×	0.15 =	4.05 m³
		1 ×	16.6 ×	0.9 ×	0.15 =	2.24 m³
	(ram Road 1} -	1 ×	16.00 ×	0.9 ×	0.15 =	2.16 m³
	2nd (ram R/s} -	1 ×	30 ×	0.9 ×	0.15 =	4.05 m³
		1 ×	19 ×	0.9 ×	0.15 =	2.57 m³
	(ram nad 1 R/s} -	1 ×	30 ×	0.9 ×	0.15 =	4.05 m³
		1 ×	9.00 ×	0.9 ×	0.15 =	1.22 m³
	4 S} -	1 ×	30 ×	0.9 ×	0.15 =	4.05 m³
	(ram Road 2.4 S} -	1 ×	31.5 ×	0.9 ×	0.15 =	4.25 m³
		1 ×	30 ×	0.9 ×	0.15 =	4.05 m³

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M. A. R. 57 (Rule 116)

Measurement Book

No. B 35422

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth	39.08	
1	2	3	4	5	6	7	8
	C&FC.	1 ×	16 ×	0.9 ×	0.15 =	2.16 m³	
	2 25/11	1 ×	29.22 ×	0.9 ×	0.15 =	3.94 m³	
						4.95 m³	
	Side Wall } - 1st RS } -	2 ×	30 ×	0.15 ×	0.55 =	2.99 m³	
		2 ×	16.6 ×	0.15 ×	0.60 =	5.40 m³	
		2 ×	30 ×	0.15 ×	0.6 =	3.24 m³	
	LHS } -	2 ×	16.6 ×	0.15 ×	0.65 =	2.88 m³	
		2 ×	16.00 ×	0.15 ×	0.6 =	5.40 m³	
	(rom road 1 } -	2 ×	30 ×	0.15 ×	0.6 =	3.42 m³	
	2nd (rm RHS } -	2 ×	19 ×	0.15 ×	0.6 =		
						73.46	

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M. A. R. 57 (Rule 116)
Measurement Book

No. B 354222

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth	39.08	
1	2	3	4	5	6	7	8
		1 ×	16 ×	0.9 ×	0.15 =	2.16 m³	
	C&FC	1 ×	29.2 ×	0.9 ×	0.15 =	3.94 m³	
	@ 25/m						
	Side Wall } - 1st RS } -	2 ×	30 ×	0.15 ×	0.55 =	4.95 m³	
		2 ×	16.6 ×	0.15 ×	0.60 =	2.99 m³	
	LHS } -	2 ×	30 ×	0.15 ×	0.6 =	5.40 m³	
		2 ×	16.6 ×	0.15 ×	0.65 =	3.24 m³	
	(rom road 1 } -	2 ×	16.00 ×	0.15 ×	0.6 =	2.88 m³	
	2nd (rm RHS } -	2 ×	30 ×	0.15 ×	0.6 =	5.40 m³	
		2 ×	19 ×	0.15 ×	0.6 =	3.42 m³	

73,46.

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Date	Full description, etc, of work	Dimensions				Contents
		Number	Length	Breadth	Depth	
1	2	3	4	5	6	7
	(ram Road 1 RHS	2	30	0.15	0.6 =	5.40 m³
		2	9	0.15	0.65 =	1.76 m³
	LHS	2	30	0.15	0.55 =	4.95 m³
		2	31.50	0.15	0.60 =	5.67 m³
	(ram Road 2 LHS	2	30	0.15	0.6 =	5.40 m³
		2	16	0.15	0.60 =	2.88 m³
		2	29.2	0.15	0.65 =	5.69 m³
			Net quantity		=	105.16 m³
	(4) Providing		Quantity limited to		=	104.9 m³
			@ Rs. 5340.00			Rs 560166

Assistant Executive Engineer
Kathiranyapura Sub Division
BBMP, Bangalore - 97

T. Steel reinforcement for R.C.C work including

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43/2017-18

M. A. R. 57 (Rule 116)
Measurement Book

No. B 354223

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Cutting, bending, hooking, placing in position, lapping and/or welding, wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per relevant clauses (laps, hooks and mistake shall not be measured and paid cost of materials, labours using machinery etc., complete as per specification and direction & as in charge of the work. As per proforma agreement wide MB No-35437 Page No-354283 to					6.297 Ton	
						@ Rs. 63465.90	Rs 399420)- 399454 = 00
5	Providing and removing centering, shuttering, strutting, propping etc., and removing from work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string Course cost of all materials, labour etc, complete as per specifications and direction & in charge of the work.						

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MEASU

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7
	1st row R/s	4	30	0.6	=	72.00m2
		4	16.6	0.6	=	39.84m2
	L/s } -	4	30	0.6	=	72.00m2
		4	16.6	0.6	=	39.84m2
	(row road - 1 -	4	16.00	0.6	=	38.40m2
	2nd row R/s } -	4	30	0.6	=	72.00m2
		4	19	0.6	=	45.60m2
	(row road 1 R/s } -	4	30	0.6	=	72.00m2
		4	9	0.6	=	21.60m2
	L/s } -	4	30	0.6	=	72.00m2
		4	31.50	0.6	=	75.60m2

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M. A. R. 57 (Rule 116)
Measurement Book

No. B 354224

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	(From road 2 Nos)	4	30	0.60	= 72.00 m²		
		4	16.00	0.60	= 38.40 m		
		4	29.20	0.6	= 70.08 m²		
				net quality	= 801.36 m²		
					625.18		
					Rs. limited to = 799.20 m²		
6	Providing granite debris of selected quality rough dressed and fixed in Cement mortar (1:6) including all Conveyance etc., complete as per specifications and direction of the Incharge of the work.				@ Rs. 306.16	Rs 244683=00	

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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Date	Full description, etc, of work	Dimensions				Contents
		Number	Length	Breadth	Depth	
1	2	3	4	5	6	7
	1st c/s RHS covering slab} -	1 ×	30 × 0.90 =			27.00m²
		1 ×	16.6 × 0.90 =			14.94m²
	LHS} -	1 ×	30 × 0.90 =			27.00m²
		1 ×	16.60 × 0.90 =			14.94m²
	Cross road I} -	1 ×	16 × 0.90 =			14.40m²
	2nd Cross RHS} -	1 ×	30 × 0.90 =			27.00m²
		1 ×	19 × 0.90 =			17.10m²
	Cross road RHS} -	1 ×	30 × 0.90 =			27.00m²
	LHS} -	1 ×	9 × 0.9 =			8.10m²
		1 ×	30 × 0.90 =			27.00m²
		1 ×	31.50 × 0.90 =			28.35m²

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

354225

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth	232.83	
1	2	3	4	5	6	7	8
	Cross Road - 2 Nos -	1 × 30 × 0.90	=			27.00 m²	
		1 × 16 × 0.90	=			14.40 m²	
		1 × 29.20 × 0.90	=			26.28 m²	
		Net Quantity	=			300.51 m²	
		Quantity limited to	=			299.70 m²	
	(2) Providing chamfering edges to stone slab 2.5 cm wide as per specifications (only Chamfered length shall be recorded etc. complete as per specification and direction of in charge of the work.	@ Rs 656.82				Rs 196849=00	

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MEASU

Date	Full description, etc, of work	Dimensions				Contents
		Number	Length	Breadth	Depth	
1	2	3	4	5	6	7
			557 x 3.00 =			1669.50 Sq.m
	(8) providing and dressing to granite slabs/gauge stone masonry work complete as per specifications and direction of incharge of the work measurement and quality are same as that of Item No - 5		@ Rs. 36.49			Rs 60
						299.70 Sq.m
	(9) providing and laying in position plain cement concrete of mix (1:2:4) with cement @ 240 kgs with 20 mm and down size graded hard metal coarse aggregates @ 0.878 cum and fine aggregate sand @ 0.45 cum machine mixed concrete laid in layers not exceeding 15 cms thick		@ Rs. 951.41			Rs 285

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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M. A. R. 57 (Rule 116)
Measurement Book

No. B 354226

Serial No. ..... From..... To.....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Compacted in foundation and Plinth and Cills, including lifting all materials, labour, storing machinery, carrying etc., Complete as per specifications and direction of us incharge of the work.						
	1st class Ramp :-	1	30	0.3	0.10	= 0.90 m³	
		1	16.60	0.3	0.10	= 0.50 m³	
	L/S :-	1	30	0.3	0.10	= 0.90 m³	
		1	16.60	0.3	0.10	= 0.50 m³	
	Cross Road 1 :-	1	16.00	0.3	0.10	= 0.48 m³	
	2nd cross R/S :-	1	30	0.3	0.10	= 0.90 m³	
						4.18	

Signature of Contractor
Paid by me by Cheque No.....Dated.....
Cash Rs.....

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Date 1	Full description, etc, of work 2	Number 3	Length 4	Breadth 5	Depth 6	Contents 7
		1	19	0.3	0.1	= 0.57m³
	(Tarmac Road 1 RHS }	1	30	0.3	0.10	= 0.90m³
		1	9	0.3	0.10	= 0.27m³
	4 LS }	1	30	0.3	0.10	= 0.90m³
		1	31.50	0.3	0.10	= 0.95m³
	(Tarmac Road 2 LHS }	1	30	0.3	0.10	= 0.90m³
		1	16	0.3	0.10	= 0.48m³
		1	29.2	0.3	0.10	= 0.88m³
						= 10.02m³
		Net Quantity				= 9.99m³
		Quantity Limited To				=

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M. A. R. 57 (Rule 116)
Measurement Book

No. B

354227

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	i.e Net Quantity			=	9.99 m^3		
			@ Rs 5696.89			Rs 56912=00	
	Grand Total - Rs						2083438=0
						Rs.	20,83,183-
					23/10/2018		

C4F
Mehaboob
23/10/18

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents
		Number	Length	Breadth	Depth	
1	2	3	4	5	6	7

Temple

Total 20,83,183-00

4th cross Nanjappa Layout →

IT- 20832-

Con- 20832-

CBF- 20832-

LR- 212485

CGST- 20832-

SGST- 20832

Adj- 106659-00

Cheque 19,76,524-

INDEX :- ■ - Drain

4.9m

46.5m

2nd cross →

1st cross →

Immediate road

46.6m

16m

56.5m.

Plumy

23/10/2018

46m

Assistant Engineer
Sub Division
Bangalore-97

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